

Amendments to the Claims:

This listing of claims will replace all prior versions, and listings, of claims in the application:

Listing of Claims:

1. (currently amended) An ATM (Asynchronous Transfer Mode) switching system for connecting a plurality of ~~subscriber's~~ subscriber terminal units with a switching network by the use of an ATM switch operated in ATM, comprising:

a call history memory for maintaining call histories of requests for connection from said plurality of ~~subscriber's~~ subscriber terminal units;

a reserved connection memory for writing and reading reserved connection information;
and

a call-signal processing section to:

~~provided with a first means for generating~~ generate a request for connection with respect to said switching network by the use of said call histories in said call history memory in the case where no call was issued from said plurality of ~~subscriber's~~ subscriber terminal units during a predetermined period of time,

~~and storing~~ store contents of a response from said switching network with respect to the request for connection in said reserved connection memory as updated reserved connection information, and

~~a second means for using~~ use said updated reserved connection information which has been stored in said reserved connection memory to control said ATM switch in the case where there was a call from any of said ~~subscriber's~~ subscriber terminal units ~~after applying said first means and~~ when the request for connection is the same as the reserved

connection information which has been updated and stored in said reserved connection memory.

2. (currently amended) The ATM switching system as claimed in claim 1, wherein:
said call history memory is provided with a call history region sectioned into one hour [[each]] sections and having an amount corresponding to twenty-four hours, and information relating to a subscriber's subscriber terminal unit units to each of which any call was issued among said plural subscriber's terminal units, each of the other an opposite end subscriber's subscriber terminal units unit connected to said switching network, ~~zones~~ a zone, and a traffic types are type is maintained in each of the sections in said call history region as ~~tables~~.

3. (currently amended) The ATM switching system as claimed in claim 1, wherein:
said call-signal processing section is provided with
a connection table memory for storing switch connection information given to said ATM switch;
a clock for outputting periodically time signals for deciding a timing ~~in case of~~ for maintaining said call ~~history~~ histories in said call history memory; and
a timer for delivering a startup signal inducing to refer to said call ~~history~~ histories in said call history memory with respect to said call-signal processing section in the case where no call is issued from said plurality of ~~subscriber's~~ subscriber terminal units for a certain period of time.

4. (currently amended) The ATM switching system as claimed in claim 3, wherein:

said call-signal processing section refers to said call ~~history~~ histories that ~~[[was]]~~ were stored in said call history memory before a predetermined period of time ~~from the present time~~ in the case where said startup signal was received by said call-signal processing section from said timer.

5. (currently amended) The ATM switching system as claimed in claim 3, wherein:
said connection table memory ~~makes~~ stores a set of a VPI (Virtual ~~[[Pass]]~~ Path Identifier)/VCI (Virtual Channel Identifier) value, which has not yet been used in a transmission path corresponding to a request for connection in said call ~~history~~ histories of said call history memory, and a VPI/VCI value in a response for connection from said switching network ~~to store data of the set~~ as said switch connection information.

6. (currently amended) The ATM switching system as claimed in claim 5, wherein:
said connection table memory stores said ~~respective~~ VPI/VCI values ~~by means of~~ in tables corresponding to said plurality of ~~subscriber's~~ subscriber terminal units and said switching network.

7. (new) A method performed within an ATM (Asynchronous Transfer Mode) switching system for connecting a plurality of subscriber terminal units with a switching network via an ATM switch, comprising:
maintaining call histories of requests for connection from the plurality of subscriber terminal units;

writing and reading reserved connection information in a reserved connection memory;
generating a request for connection with respect to the switching network using the call histories when no call was issued from the plurality of subscriber terminal units during a predetermined period of time;

storing contents of a response from the switching network with respect to the request for connection in the reserved connection memory as updated reserved connection information; and

using the updated reserved connection information which has been stored in the reserved connection memory to control the ATM switch in the case where there was a call from any of the subscriber terminal units when the request for connection is the same as the reserved connection information which has been updated and stored in the reserved connection memory.

8. (new) The method as claimed in claim 7, further comprising:

providing a call history region sectioned into one hour sections and having an amount corresponding to twenty-four hours, and

storing information relating to a subscriber terminal unit, an opposite end subscriber terminal unit connected to the switching network, a zone, and a traffic type in the sections of the call history region.

9. (new) The method as claimed in claim 7, further comprising:

storing switch connection information given to the ATM switch.

10. (new) The method as claimed in claim 9, wherein storing switch connection information comprises:

storing a set of a VPI (Virtual Path Identifier)/VCI (Virtual Channel Identifier) value, which has not yet been used in a transmission path corresponding to a request for connection in the call histories, and a VPI/VCI value in a response for connection from the switching network as the switch connection information.

11. (new) The method as claimed in claim 10, wherein storing switch connection information comprises:

storing the respective VPI/VCI values in tables corresponding to the plurality of subscriber terminal units and the switching network.

12. (new) The method as claimed in claim 7, further comprising:
periodically outputting time signals for deciding a timing for maintaining the call histories; and

delivering a startup signal when no call is issued from the plurality of subscriber terminal units for a certain period of time.

13. (new) The method as claimed in claim 12, further comprising
referring to the call histories before a predetermined period of time in the case where the startup signal was delivered.

14. (new) A system within an ATM (Asynchronous Transfer Mode) switching system for connecting a plurality of subscriber terminal units with a switching network via an ATM switch, comprising:

means for maintaining call histories of requests for connection from the plurality of subscriber terminal units;

means for storing reserved connection information in a reserved connection memory;

means for generating a request for connection with respect to the switching network using the call histories when no call was issued from the plurality of subscriber terminal units during a predetermined period of time;

means for storing contents of a response from the switching network with respect to the request for connection in the reserved connection memory as updated reserved connection information; and

means for using the updated reserved connection information which has been stored in the reserved connection memory to control the ATM switch in the case where there was a call from any of the subscriber terminal units when the request for connection is the same as the reserved connection information which has been updated and stored in the reserved connection memory.